ACTUTY NAME AND PERMIT NUMBER: Cardinal Village WP.DES Pennit No. VA 0065196

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

ART A. BASIC	APPLICATION	N INFORMATION	FOR ALL APPL	CANTS			
Ultreatment works	niust complete.	ciuestions A Ethicou	Jh A 8 of this Basi	C Application	Information	nackov se se	
L1. Facility Inform	nation.						
Facility name	_Ca	ardinal V	illage			-	SEP 2 1 2
Mailing Addres	s <u>50</u>	21 Holla	ind Roa	d			Tidewater Rec
•	Nei			3415			
Contact person	-Uf	Oshur J.	Taylor				
Title	<u>Ou</u>	uner		-	•		-
Telephone num	ber <u>75</u>	1-824-5	5989	757	-891	1-1990	a
Facility Address	<u>63</u>	79 Lan	Kford	High	way	<u> </u>	
(not P.O. Box)	-Ne	w Churc	Δ.Δ.	23415			
2. Applicant Infor	mation. If the ap	pplicant is different from	. *			-	
Applicant name		N/A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	wie ienowitig.			A
Mailing Address				-			
•			<u></u>			· ·	
Contact person	4 th					 	
Title	· .		,	 		· · · · · · · · · · · · · · · · · · ·	
Telephone numb	er						
is the applicant	the owner or ope	perator (or both) of th	e freatment works	?			
owne	£	operator		_	•	,	
indicate whether	житеspondence и	regarding this permit sh	ould be directed to	the facility or th	ne applicant.		
facility	/ <u>- </u>	applicant	*				. ,
Existing Environ	mental Permits.	. Provide the permit nu	umber of any existin	g environmenta	al permits tha	t have been tone	d to the treatment works
	eo permits).				- Paris and the		a to the reatment works
NPDES	· · · · · · · · · · · · · · · · · · ·	, <u>, , , , , , , , , , , , , , , , , , </u>	-	PSD _			- ·
UIC		W		Other 1	VPDES	Permit Ni	, VA006519
• * * * * * * * * * * * * * * * * * * *	<u> </u>		·	Other	· · · · · · · · · · · · · · · · · · ·		
Collection System entity and, if know	n information. P	Provide information on	municipalities and a	reas served by	the facility.	Provide the name	and population of each
Name	A to a company of the section of the	ation on the type of coll Population Serve		0.1.00 vs. scpsi	iale) and his	ownership (munic	pal, private, etc.).
Cardinal	Village	ZÎ A	за Туре	of Collection	System	Owners	h ip
-with Hall	THE STATE OF THE S			separa	te	_ pri	<u>vate</u>
and the second second		 	 . 				<u> </u>
	-			,			

irade Service Operations
3rd Floor
500 First Avenue
Pittsburgh, PA 15219
Mail Stop: P7-PFSC-03-T

OPNCBANK

DATE: SEPTEMBER 15, 2009

DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) P.O. BOX 1105 629 E. MAIN STREET RICHMOND VA 23218

NOTICE OF AUTOMATIC EXTENSION

OUR REFERENCE:

18107235-00-000

TRANSACTION NUMBER:

5

APPLICANT:

UPSHUR J TAYLOR

THIS NOTICE IS TO ADVISE YOU THAT THE EXPIRATION DATE OF THE REFERENCED LETTER OF CREDIT NUMBER 18107235-00-000 HAS BEEN EXTENDED TO JANUARY 25, 2011.

THIS IS NOT TO BE CONSIDERED AS AN AMENDMENT TO THE LETTER OF CREDIT. THIS IS FOR INFORMATION PURPOSES ONLY.

PNC BANK, NATIONAL ASSOCIATION GLOBAL TRADE SERVICE OPERATIONS

THIS IS A COMPUTER GENERATED DOCUMENT; A MANUAL SIGNATURE IS NOT REQUIRED.

FORM116650-0505

2009-09-17 13:51 Page 2/2

VPDES Permit Wo. VA 0065196

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICA	TION INFORM	MATION		OMB Number 2040-000
PART C. CERTIFICAT				
applicants must comple	te the Certification Sec	ction. Refer to instructions to deten if Form 2A, as explained in the App diffication statement, applicants con is submitted.	IIIII that they have	"""ULL Dalis Of COME ZA Voil has
Indicate which parts	of Form 2A you be	e completed and are submitting:	They have reviewed Form	12A and have completed all sec
Basic Application	on information packet	Y YYM MIGHEO 2000 300 600		
		Part D (Expanded	Effluent Testing Data)	
	•	Part E (Toxicity Te	sting: Biomonitoring Data)	
	-	Part F (Industrial U	Iser Discharges and RCRA/CER	CI A 18/m-1 - 1
		Part G (Combined	Sewer Systems)	CLA vvasies).
essure that qualified person	hat this document and nel properly gather an	LOWING CERTIFICATION. all attachments were prepared und devaluate the information submitted the information, the information alties for submitting false information.	der my direction or supervision in ed. Based on my inquiry of the perion is, to the best of my knowledge	accordance with a system designson or persons who manage the
•	Upshur T	Tauler - air	in, including the possibility of fine	and imprisonment for knowing.
Name and official title	John W.	Cline - Class H	Togender	
Signature (4)	slow Tufun	Cline-class II	Clima =	etor-in-charge
Telephone number	751-8			
Date signed	09-17 -		157-894-199	9
request of the permitting antify appropriate permitting	authority, you must sub	omit any other information necessar	CV to assess which	
				•

SEND COMPLETED FORMS TO:

CARDINAL VILLAGE

WASTEWATER TREATMENT PLANT

CLOSURE PLAN

TABLE OF CONTENTS

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2.0	Facility Description	1
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	 3.1 Tank cleaning 3.2 Demolition and final disposal 3.3 Site handling and land use after sale of plant 	1 1 2
4.0	Certification	2
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6.0	Hauling Route	2
Atta	achments	
1. 2. 3.	Bundick Well & Pump Service Letter Sludge Hauling Route Benny C. Hall & Son Service Letter	

1.0 INTRODUCTION

Cardinal Village Mobile Home Park is located in Accomack County, Virginia, owned by Mr. Upshur J. Taylor. In accordance with the VPDES Permit Renewal requirements this plan has been prepared to provide specific direction related to the closure of the Wastewater Treatment Plant and the current estimated costs associated with the closure. Upon completion of this plan, the area formally occupied by the wastewater plant will become an open grass covered green area.

2.0 FACILITY DESCRIPTION

The plant is described as a 6000-gpd secondary treatment package plant with chlorination and dechlorination. It operates under VPDES Permit No. VA0065196, discharging into an unnamned ditch to Tunnels Mill Branch which flows to Bullbeggar Creek and then to the Chesapeake Bay. The plant is a self-contained metal unit.

3.0 CLOSURE PLAN

In the event of a closure of this plant the owner intends to hire a licensed contractor to complete this plan. The contractor will be responsible for all tasks associated with the plan and for obtaining all permits from Accomack County as required.

3.1 Tank Cleaning

All liquids and solids will be removed by means of a septic tank pump truck and disposed Of at Pocomoke Town Facility, Pocomoke City, Md. (See attached letter) (Permit # 09-100-0002) will perform this task.

All surfaces will be high pressure

washed and disinfected with a spray on solution of sodium hypochlorite at 200 PPM. Following disinfection all surfaces and equipment will be washed down with potable water. Rinse water will be dechlorinated with a Sodium Bisulfate Solution and disposed of in the sanitary sewer.

3.2 Demolition and Final Disposal

After tank cleaning, influent & effluent pipes will be physically disconnected and capped. All mechanical and electrical equipment and accessories will be removed and properly disposed of. The metal structure which is the plant will then be cut in to scrap and disposed of properly. The excavated site will then be backfilled with sand fill and capped with 3" of top soil.

3.3 Site Handling and Land Use After Closure

Preceding any land disturbance, erosion and sediment control measures will be implemented as required. After tank removal, the tank site will be back-filled with sand fill and top soil. The polishing pond will be filled in to grade as required with sand fill and top soil. The entire area will be brought to the existing predominant grade of the surrounding area with the Contractor ensuring that no ponding of water can occur on the site after final grade is established. The site will be seeded with a blend of fescue and rye grasses at an application rate of 150 pounds per acre and covered with straw.

4.0 CERTIFICATION

Upon completion of the closure, the owner or his designated representative shall verify the work was completed in accordance with the plan and provide written verification to both the Virginia Department of Health and Department of Environmental Quality.

5.0 COST ESTIMATE

It is estimated that to complete this plan at the time of its preparation will cost the owner \$5,510.00. This estimate includes \$1310.00 to Bundick Well & Pump Co. to clean, disinfect, and dispose remaining liquids and \$4,200.00 to Benny C. Hall & Son for excavation and burial of pump station and package plant, filling pond, grading to existing ground level, and seeding.

6.0 HAULING ROUTE

From Cutler's Court Road travel north on Route 13 and turn left on Old Virginia Road and turn left on Dunn Swamp Road and turn left into Pocomoke Town Facility, Pocomoke City, Md.

Bundick Well & Pump Company

P.O. Box 15 Painter, VA 23420

February 11, 2009

To: Upshur J. Taylor

re: Cardinal Village Mobile Home Park

From: Bundick Well & Pump Company

P.O.Box 15 Painter, VA 23420

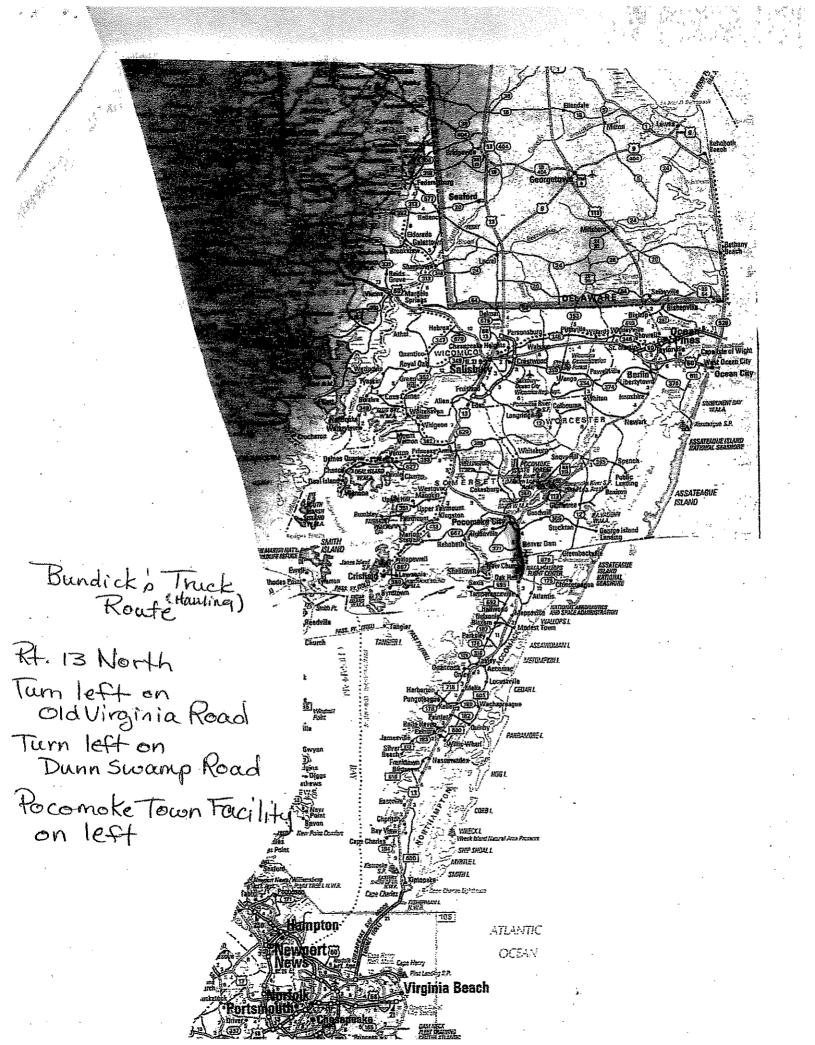
Bundick Well and Pump Company (Permit No. 09-100-0002) agrees to pump Cardinal Village and haul waste to the Pocomoke Town Facility located on Dunn Swamp Road, Pocomoke City, Md.

Waste Sludge is placed in a sludge holding tank until the tank is full. Waste tank is then emptied by our pumper truck at the rate of \$160.00 per 2000 gallon truck load. Sludge is taken to Pocomoke Town Facility, Pocomoke City, Md. For final disposal.

To properly clean, disinfect & dispose of remaining liquids of the pump station and package treatment plant the cost would be \$1,150.00.

If you have any questions please feel free to call 757-442-5555 or 757-824-3555.

Sincerely Bundick Well & Pump Co.



BENNY C. HALL & 50N 8013 LONG LANG TEMPERANCEVILLE, VA 23442

February 9, 2009

To: Upshur J. Taylor

Cardinal Village Mobile Home Park

Re: Cost Estimate

The estimated cost for excavator work will be at the rate of \$200.00 per hour for 16 hours for a total of \$3,200.00. This will be for extracting pump station and package treatment plant and burial of the same using the existing berm that surrounds the pond which is approximately 5 1/2 - 6 feet in height and approximately 30 feet wide on a taper. This will be more than enough to fill the pond back in and the holes where the treatment package plant and lift station are located. For leveling to existing grade and reseeding the cost would be \$1000.00. Total bill \$4,200.00.

FACILITÉ NAME AND PERMIT NUMBER: Cardinal Village VA0065196

FORM 2A

NPDES FORM 2A APPLICATION OVERVIEW

NPDES

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART & (CERTIFICATION)

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS: All treatment works must complete questions a strinough A.B. of this Basic Application information packet. A.1. Facility Information. Facility name Cardinal Village Mailing Address 5021 Holland Road New Church, VA 23415 Contact person Upshur J. Taylor Title Owner	
A1. Facility Information. Facility name Cardinal Village Mailing Address 5021 Holland Road New Church, VA 23415 Contact person Upshur J. Taylor	
Mailing Address 5021 Holland Road New Church, VA 23415 Contact person Upshur J. Taylor	
New Church, VA 23415 Contact person Upshur J. Taylor	
New Church, VA 23415 Contact person Upshur J. Taylor	
Contact person Upshur J. Taylor	
Title <u>owner</u>	
Telephone number 757-824-5989 757-894-1999	
Facility Address 6379 Lankford Highway	
(not P.O. Box) New Church, VA 23415	
A.2. Applicant Information. If the applicant is different from the above, provide the following:	
Applicant name N/A	to the growing states and
Mailing Address	•
Contact person	
Title	
Telephone number	
Is the applicant the owner or operator (or both) of the treatment works?	·
owner operator	
Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.	
facility applicant	
A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to (include state-issued permits).	the treatment works
NPDESPSD	
1110	Wastlai
RCRA Other	<u> 140065196</u>
A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal,	I population of each
Name Regulation Consolidation	private, etc.).
Cardinal Village 40 Sparrete Overship	10
d separate priva	<u> </u>
Total population served 60	

A.5.	inc	lian Country.	NA				
	a.	Is the treatment v	works located in Indian Co	ountry?			
		Yes	No	0	÷	* .	
	b.	Does the treatme through) Indian C	ent works discharge to a re Country?	eceiving water that is eithe	r in Indian Country or that	is upstream from (a	nd eventually flows
		Yes	No	5		•	·
A.6.	gai	ly flow rate and ma	aximum daily flow rate for	ment plant (i.e., the waster each of the last three year ree months prior to this ap	s. Each vear's data must	nt was built to hand be based on a 12-m	e). Also provide the average conth time period with the 12th
	a.	Design flow rate.	0.006 mgd				
				Two Years Ago	Last Year	This Y	ear ·
	b.	Annual average of	faily flow rate	.00a	-000	e	002 mgd
	c.	Maximum daily flo	ow rate	.003	-003		<u>003</u> mgd
A.7.	Co	llection System. ntribution (by miles	Indicate the type(s) of co	illection system(s) used by	the treatment plant. Che	ck all that apply. Als	o estimate the percent
	\	Separate s	anitary sewer				00 %
	-	Combined :	storm and sanitary sewer	•			%
A.8.	Dis	scharges and Oth	er Disposal Methods.	····			
	a.	Does the treatme	ent works discharge efflue	nt to waters of the U.S.?		Yes	- file
			_	ng types of discharge point	s the treatment works use		
			of treated effluent	-9 Abas or anomargo pont	o are account to 10 to	~·.	1
		• •	of untreated or partially tre	ated effluent			
			ewer overflow points				Segger 4 Sec.
		-	emergency overflows (pri	or to the headworks)			
		v. Other	arreigerey promotts (pri	or to are ripodifforms)	•		
	b.	Does the treatme that do not have	ent works discharge.efflue outlets for discharge to wa	ent to basins, ponds, or oth aters of the U.S.?	er surface impoundments	Yes	No
		If yes, provide the	e following for each surfac	ze impoundment:			•
		Location:					
		Annual average	daily volume discharged to	surface impoundment(s)		• *	mgd į
		ls discharge	continuous or	intermitte	nt?	•	4
	C.	Does the treatme	nt works land-apply treate	ed wastewater?		Yes	No
		If yes, provide the	ofollowing for each land a	polication site:		-	·
		Location:					
		Number of acres	**************************************				
		Annual average of	faily volume applied to site	÷:	Mgd	1	
		Is land application	n continu	uous or int	ermittent?		
	d.	Does the treatme	ent worke diechama or tra-	nsport treated or unireated	wactowater to enails	0	, .
	u.	treatment works?		nopore reason or usurealed	ANDIEWATER IN SUOTIEL	Yes	No No
			-			•	

FACILITY, NAME AND PERMIT NUMBER: Cardinal Village. VPDES Permit-No. VA 0065196

Form Approved 1/14/99 OMB Number 2040-0086

(e.g., tank truck, pipe).				
f transmort is by a narty	other than the applicant, provide:	-		
Fransporter name:	•	-		•
			•	
Mailing Address:			· · · · · · · · · · · · · · · · · · ·	
٠.			-	
Contact person:				
Title:				
			· .	
Telephone number:		-		
For each treatment worl	s that receives this discharge, provide the following:			
Name:			· · · · · · · · · · · · · · · · · · ·	
Mailing Address:				
			٠. ,	
Contact person:	Approximation of the second se		 	···
Title:				
Telephone number:				
If known, provide the Nf	PDES permit number of the treatment works that receives this discharge:			
Provide the average dai	ly flow rate from the treatment works into the receiving facility.			mgd
en en e como de la como	to the transfer of the same of		-	
Does the treatment won A.8.a through A.8.d abo	ks discharge or dispose of its wastewater in a manner not included in ve (e.g., underground percolation, well injection)?	Yes	V.	No
If yes, provide the follow	ring for each disposal method:	····	-	
	including location and size of site(s) if applicable):	• • • •		
	,			
Annual daily volume dis	posed of by this method:	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Is disposal through this				
is disposal unough this	memment!			

FACILITY NAME AND PERMIT NUMBER: COVIDINAL VILLAGE VPDES Permit No. VA0065196

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

). D	escription of Outfall.					* op 14 m²·
a.	Outfall number	001			:	
b.	Location	Cardinal Village	Va.	·	سے د ا د ھ	<u></u>
٠.	Locatori	(City or town, if applicable)	, vc. :	(Zip Code)	3415	
		(County)	<i>f</i>	Vira	inia.	
•		Deg 37 min 57:	sec 15	(State) (State) (State)	min 32	5ec 30
		(Latitude)		(Longitude)		
C.	Distance from shore (if	applicable)	N/A	, ft.		•
d.	Depth below surface (if	applicable)	NIA	ft		
				, 14	-	
e.	Average daily flow rate		<u>.002</u>	mgd	-	e 15
f	Does this outfall have ei	ther an intermittent or a periodic	•	•		
	discharge?	aros as anomatoricos a periodi				* *
_	16		Yes	No	(go to A.9.g.)	
	If yes, provide the follow	ing information:	en e			
•-	Number of times per year	er discharge occurs:	365 day	- Chail.	-	The second
	Average duration of eac	-		3 caury	in the second of	The second s
	•		Idoo Ila			The state of the state of
	Average flow per discha			s per day med	!	2g**
	Months in which dischar	ge occurs:	<u>all la mo</u>	onths_		•
	is outfall equipped with	a diffusor?	Yes			
3.	io oddeni oddippod mari	a diluoci :	V TES	No		
a		M.S. A.				•
u. De	escription of Receiving \	waters				· -
a.	Name of receiving water	unamed	ditch to Te	innells Mil	1 L Rull	hanne
						JAMA
b.	Name of watershed (if ke	nown)	to Chesape	ake Bay		
			· · · · · · · · · · · · · · · · · · ·	J		٠ .
	United States Soil Cons	ervation Service 14-digit waters	shed code (if known):	N/A_		
C.	Name of State Manager	nent/River Basin (if known):	n (10	<u>.</u>	કે
, ·	ranco or occo manager	norm wor buoki (ii terovery,		/ 	<u> </u>	
	United States Geologica	l Survey 8-digit hydrologic catal	loging unit code (if known):	·		
	_	;				
d.		ring stream (if applicable):	A.			
	acute	cfs	W/A chronic	cfs		
e.	Total hardness of receiv	ing stream at critical low flow (ii	fapplicable): <i>N/A</i>	cfs mg/l of CaCO ₃		
		,	*	· ·		
	·	4				-

FACILITY, NAME AND PERMIT NUMBER: CAVOLINAL VIllage VPDES Permit No. VA0065196

Form Approved 1/14/99 OMB Number 2040-0086

		scription of Treatment.		:		-		· .		
	a.	What levels of treatment are	provided? Check	k all that ap	ply.		•	•	• •	
		Primary		Seco	ondary			÷		
•		Advanced	· .	Othe	r. Describe:	<u> </u>			·-	
. •	b.	Indicate the following remova	il rates (as applic	able):	. '		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
-		Design BOD ₅ removal <u>or</u> Des	sign CBOD _s rem	ioval		-	85-4	74.9 %		
		Design SS removal			•		85-4			
		Design P removal				<u>u</u>	NKN	OWN %		
٠		Design N removal		•		**	Inlone			
-		Other				٠.	N/D	%		
	c.	What type of disinfection is u	ised for the efflu	ent from th	is outfall? If disin	fection varies t	y season, pi	ease describe.		
			rinatio		·	-			-	
		If disinfection is by chlorination	on, is dechlorinat	tion used fo	or this outfall?	-		Yes	. No	
	d.	Does the treatment plant have	e post aeration?		•			Yes	No No	,
	Ou	tfall number:		XIMUMED	AILY VALUE - X >		A	TERAGE DAILY	/ALPENG-63	
			Val		- Units	Vali	real mark	Units:	Number of Sa	nples
pH (A			7. 7	a	S.U.	Val	real mark	Units.	7.44	nples
pH (N	Maxii	mum)	7. 3 7. 3	a 8	S.U. S.U.	Value	real mark	Units -	7.44	mples
pH (N	Maxii Rate	mum)	7. 3 7. 3	a	S.U. S.U.	Val	real mark	Unis	7.44	nples
pH (N Flow Temp	Maxii Rate pera	mum) e ture (Winter) ture (Summer)	7.3	a g va m	s.u. `s.u. 160)	Vali	real mark	Units	Number of Sa	nples
pH (N Flow Temp	Maxii Rate pera	mum) e ture (Winter) ture (Summer) or pH please report a minimum	7. 3	a g Ua (m	s.u. `s.u. 160)			Units.	Number of Sa	nples
pH (N Flow Temp	Maxii Rate pera	mum) e ture (Winter) ture (Summer)	7.3	a g Ua (m n daily valu DAILY	s.u. `s.u. 160)	Vali		Units: ANALYTICA METHOD	Number of Sa	
pH (N Flow Temp	Maxii Rate pera	mum) e ture (Winter) ture (Summer) or pH please report a minimum	7. 3	a g Ua (m n daily valu DAILY	s.u. `s.u. 160)			-ANALYTIC/ METHOD	Number of Sa	
pH (M Flow Temp	Maxii Rate peral Peral	mum) e ture (Winter) ture (Summer) or pH please report a minimum	7. 3 7. 3 7. 3 7. 3 7. 3 7. 3 7. 3 7. 3	R Gally valued DAILY RGE	s.u. s.u. noo)	SE DAILY DIS	EHARGE Number	-ANALYTIC/ METHOD	Number of Sa	
PH (IN Flow Temp	Maxin Rate Derail	ture (Winter) ture (Summer) or pH please report a minimum POLLUTANT TIONAL AND NONCONVENT ICAL OXYGEN BOD-5	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	daily valued and a second and a	s.u. s.u. s.u. Conc.	SE DAILY DIS	EHARGE Number	ANALYTICA METHOD of	Number of Sa	
pH (N Flow Temp Temp CONV	Maxin Rate peral peral Fr	ture (Winter) ture (Summer) or pH please report a minimum POLEUTANT TIONAL AND NONCONVENT ICAL OXYGEN BOD-5 (Report one) CBOD-5	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	R Gally valued DAILY RGE	s.u. s.u. s.u. Conc.	SE DAILY DIS	EHARGE Number	-ANALYTIC/ METHOD	Number of Sa	
pH (N Flow Temp Temp CONN BIOCH DEMA	Maxin Rate Derail * For Foreign Francisco Fran	ture (Winter) ture (Summer) or pH please report a minimum POELUTANT TIONAL AND NONCONVENT ICAL OXYGEN BOD-5 (Report one) CBOD-5	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Maliy valued and the second and the	s.u. s.u. s.u. Conc.	SE DAILY DIS	EHARGE Number	ANALYTICA METHOD of SMISS	Number of Sa	
pH (N Flow Temp Temp CONN BIOCH DEMA	Maxin Rate Derail * For Foreign Francisco Fran	ture (Winter) ture (Summer) or pH please report a minimum POLEUTANT TIONAL AND NONCONVENT ICAL OXYGEN BOD-5 (Report one) CBOD-5	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	R O O O O O O O O O O O O O	s.u. s.u. s.u. Conc.	SEDALLY DIS	EHARGE Number	ANALYTICA METHOD of	Number of Sa	

Form Approved 1/14/99 OMB Number 2040-0086

BA	SIC	CAPPLICATION INFORMATION
PAR	ТВ	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day):
All ap	plica	ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Infl	low and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
	Brie	efly explain any steps underway or planned to minimize inflow and infiltration.
B.2.	To _l ma	pographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This p must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire a.)
	a.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	C.	Each well where wastewater from the treatment plant is injected underground, who was the same and the same an
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?

Yes V No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name:

Mailing Address:

Telephone Number:

Responsibilities of Contractor:

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

		·	
a.	List the outfall number (assigned in question A.9) for each	ch outfall that is covered by this implementation schedu	ıle.
	. 001		

) .	Indicate whether the planned improvements or implementation schedule are required by local, State	, or Federa	agencies.
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__Yes 1/No N/A

FACILITY NAME AND PERMIT NUMBER: COORDINAL VIllage Form Approved 1/14/99 OMB Number 2040-0086 VPDES Permit No. VAOD 65 196 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Schedule : Actual Completion Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction - End construction - Begin discharge - Attain operational level Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: __/__/__/ AVERAGE DAILY DISCHARGE MAXIMUM DAILY 3 DISCHARGE Conc. Units Number of CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) CHLORINE (TOTAL RESIDUAL, TRC) DISSOLVED OXYGEN TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN OIL and GREASE PHOSPHORUS (Total) TOTAL DISSOLVED SOLIDS (TDS) OTHER END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME A	ND PERMIT NUMBER:	Cardinal Village
		VA 0065196

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION
PART C. CERTIFICATION
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.
Indicate which parts of Form 2A you have completed and are submitting:
Basic Application Information packet
Part D (Expanded Effluent Testing Data)
Part E (Toxicity Testing: Biomonitoring Data)
Part F (Industrial User Discharges and RCRA/CERCLA Wastes).
Part G (Combined Sewer Systems)
ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true; accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Upshur J. Toul or — owner + aperator.
Name and official title John W. Cline - Class It Operator - Operator-in charge
Signature Upslus Tylus John W. Cline -
Telephone number 757-824-5989 757-894-1999
Date signed 08-31-2009
Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

POLLUTANT TETALS (TOTAL RECOVERABLE), CY INTIMONY RSENIC SERYLLIUM CADMIUM	Conc	Units.	Mass	-Units	Conc	Units.	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MOL
NTIMONY RSENIC ERYLLIUM	ANIDE, F	HENOL	S, AND H	ARDNES	S				- Samples:		
RSENIC					:		·				
ERYLLIUM											
			·								
:ADMIUM		1	1 1				-	-			-3
	i	-									
HROMIUM				-	p						,
COPPER							** - /		-		
EAD			,								
MERCURY		-									
VICKEL							·	-	·		,
SELENIUM									-	:	
SILVER		,							-		
"HALLIUM"										,	
CINC	-										
CYANIDE										,	
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO3)											
Jse this space (or a separate sheet) to	provide in	formation	n on other	metals re	equested b	y the pe	mit writer			·	<u> </u>

FACILITY NAME AND PERMIT NUMBER: Cardinal Village
NPDES Permit No. VA 0065196

Outfall number:	(Complete once for each outfall discharging effluent to waters of the United States.)										
POLLUTANT		DISCH	M DAILY				EDAILY I	* **	1		
	Conc.	Units	- Mass	Units	Conc:	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.			-	<u> </u>		*	لسنسنا	P	: Samples	<u> </u>	
ACROLEIN										2 -	
ACRYLONITRILE		-									
BENZENE	- ,										
BROMOFORM			-			-		-			
CARBON TETRACHLORIDE		·	-	·	-						4-
CLOROBENZENE											1,50
CHLORODIBROMO-METHANE		* .									
CHLOROETHANE										· · · · · · · · · · · · · · · · · · ·	
2-CHLORO-ETHYLVINYL ETHER			1							· · · · · · · · · · · · · · · · · · ·	
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE							<u> </u>				
1,2-DICHLOROETHANE		<u></u>									
TRANS-1,2-DICHLORO-ETHYLENE			1	<u> </u>			ļ				<u></u>
1,1-DICHLOROETHYLENE				ļ		-			-		
1,2-DICHLOROPROPANE	1							 			1 -
1,3-DICHLORO-PROPYLENE	1	ļ. —			<u> </u>					-	
ETHYLBENZENE											
METHYL BROMIDE				<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	-		
METHYL CHLORIDE					<u> </u>	-					
METHYLENE CHLORIDE		_		-		•		-			
1,1,2,2-TETRACHLORO-ETHANE		1									
TETRACHLORO-ETHYLENE		-			1	1.	-	·	**************************************		
TOLUENE		-					-				

FACILITY NAME AND PERMIT NUMBER: Cardinal Village
VPDES Permit Wo. VA0065196

Outfall number: POLLUTANT									United State		· · · · · · · · · · · · · · · · · · ·
POLLUTANT (`	DISCI	IM DAIL IARGE	Α\		·•					
	Conc.	Units	Mass	Units	Conc	Units	Mass		Number of Samples	ANALYTICAL METHOD	ML/ MDL
,1,1-TRICHLOROETHANE									-	-:	
,1,2-TRICHLOROETHANE		- ,-								-	y e*
RICHLORETHYLENE										. •	-
/INYL CHLORIDE										-	_
Jse this space (or a separate sheet)	to provide i	nformatio	n on othe	volatile o	rganic cor	npounds	requeste	d by the	permit writer.		
			·								·
ACID-EXTRACTABLE COMPOUND	3.	:				***************************************					
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL			. 72								
2,4-DICHLOROPHENOL		<u> </u>		<u> </u>				,			
2,4-DIMETHYLPHENOL			-								
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL		***************************************									
2-NITROPHENOL											
4-NITROPHENOL									-		
PENTACHLOROPHENOL	-										
PHENOL						-					
2,4,6-TRICHLOROPHENOL											
Use this space (or a separate sheet)	to provide	informatic	on othe	r acid-ext	ractable co	mpound	ls request	ed by the	permit writer.		
				<u> </u>	1		<u> </u>				
BASE-NEUTRAL COMPOUNDS.			1	· T	η	· ·	1	1	1		
ACENAPHTHENE		-		<u> </u>			<u> </u>				
ACENAPHTHYLENE											
ANTHRACENE										,	
BENZIDINE ,									·		
BENZO(A)ANTHRACENE]	

		· · · · · · · · · · · · · · · · · · ·	·				i i	· ·			· · · · · · · · · · · · · · · · · · ·
ENZO(A)PYRENE				_							
FACILITY NAME AND PERMIT NI VPDES Permit N						,				Form Appro OMB Numb	ved 1/14/99 er 2040-0086
Outfall number:	(Comple	te once	for each	outfall d	ischarging	effluer	t to wate	rs of the	United State	s.)	
POLLUTANT		JMIXAN	M DAIL		A\	/ERAGI	DAILY	DISCHA	RGE		<u> </u>
	Conn	DISCH	HARGE	. Linite	Conc	Linife	Mace	Units	Number	ANALYTICAL	ML/ MDL
	Conc.	Units	N. 1. 20 B			7	Wicos 	, cana	of Samples	METHOD	
.4 BENZO-FLUORANTHENE											_
BENZO(GHI)PERÝLENE	.,		·,						·		
BENZO(K)FLUORANTHENE									-		
BIS (2-CHLOROETHOXY) METHANE		-									
BIS (2-CHLOROETHYL)-ETHER											*
BIS (2-CHLOROISO-PROPYL) ETHER		V							-		
BIS (2-ETHYLHEXYL) PHTHALATE			<u> </u>			-					
4-BROMOPHENYL PHENYL ETHER					*					- 1.	
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE						<u> </u>					
4-CHLORPHENYL PHENYL ETHER					1		1				
CHRYSENE		-		-		1.					
DI-N-BUTYL PHTHALATE	<u> </u>		ļ.								lante - two-q
DI-N-OCTYL PHTHALATE								ļ.		<u> </u>	
DIBENZO(A,H) ANTHRACENE		<u> </u>	<u> </u>	- 			-	-		# 1	
1,2-DICHLOROBENZENE	-		-		<u> </u>		-				
1,3-DICHLOROBENZENE	+							_			-
1,4-DICHLOROBENZENE	-		<u> </u>								
3,3-DICHLORÓBENZIDINE	-	_	•	-			-		*		
DIETHYL PHTHALATE	_		,					-			
DIMETHYL PHTHALATE								-			

2,4-DINITROTOLUENE

2,6-DINITROTOLUENE

1,2-DIPHEMYLHYDRAZINE									·		
FACILITY NAME AND PERMIT N			· ~	1011	l'ilou	\					
					/ 1 1 LAI	10					oved 1/14/99 ber 2040-0086
VPDES Permit No											
Outfall number: POLLUTANT								-	United State		-
I OCCUPACI	i	- 0100t	TAKEE	4 .	. · · A\			. ×3		ere tieter ere ere Landstein bereit	oler .
(2) 対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対象を対	Conc.	Units	Mass	.«Units». د خود	Conc.	Units:	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE											
FLUORENE			-								
HEXACHLOROBENZENE						-11					
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE				,							
NDENO(1,2,3-CD)PYRENE						-					
SOPHORONE						:					
NAPHTHALENE					·						
NITROBENZENE									-		
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE			·		,				·		
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE								<u> </u>			
PYRENE								<u> </u>			:
1,2,4-TRICHLOROBENZENE	,					<u></u>		<u> </u>			
Use this space (or a separate sheet) to	provide in	romatio	n on other	Dase-ne	utral comp	ounds re	equested b	by the per	mit writer.		*
Use this space (or a separate sheet) to	provide in	nformatio	n on other	pollutant	s (e.g., pe	sticides)	requested	t by the p	ermit writer.		
-											
REFER TO THE APP	LICA ⁻	FION	OVE		D OF			VE W		THER PART	SOFFORM

After disinfection

After dechlorination

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SUPPLEMENTAL APPLICATION INFORMATION PART E. TOXICITY TESTING DATA POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity foreach of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters. At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half-years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QAVQC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted. If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Parties If no biomonitoring data is required, do not complete Partie. Refer to the Application Overview for directions on which other sections of the form to E1. Required Tests. Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. chronic ... acute E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number: Test number: a. Test information. Test species & test method number --Age at initiation of test Outfall number Dates sample collected Date test started . Duration b. Give toxicity test methods followed. Manual title Edition number and year of publication Page number(s) c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used. 24-Hour composite Grab d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each) Before disinfection

FACILITY NAME AND PERMIT NUMBER: Cardinal Village VPDES Permit No. VA0065196

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	Test number:	Test number:	Test number:
e. Describe the point in the treatment	t process at which the sample was co	flected.	
Sample was collected:			÷ .
f. For each test, include whether the	test was intended to assess chronic to	oxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed.			
Static			
Static-renewal			
Flow-through			
h. Source of dilution waterIf laborat	ory water, specify type; if receiving wa	ater, specify source:	
Laboratory water			•
Receiving water		· · · · · · · · · · · · · · · · · · ·	
i. Type of dilution water. It salt water	, specify "natural" or type of artificial s	ea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used t	or all concentrations in the test series		
	-		
	-		
k. Parameters measured during the t	est. (State whether parameter meets	test method specifications)	
рН			
Salinity		<u>.</u>	
Temperature			
Ammonia			
Dissolved oxygen			ŕ
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	. %
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	% .	*%	
Other (describe)			

FACILITY NAME AND PERMIT NUMBER: Cardinal Village Form Approved 1/14/99 OMB Number 2040-0086 VIPDES Permit No. VA0065196 Chronic: NOEC % % 10_{25} % % Control percent survival % % Other (describe). m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? If yes, describe: E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. Date submitted: (MM/DD/YYYY) Summary of results: (see instructions) END OF PARTE.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM.

2A YOU MUST COMPLETE.

FACILITY NAME AND PERMIT NUMBER: COVOLING VIllage VPDES Permit No. VA0065196

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SUPPLEMENTAL APPLICATION INFORMATION

100	RT F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES The seatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must	-
comp	plete Part F.	
GEN	VERAL INFORMATION:	e l
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?	
	YesNo	
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works:	
	a. Number of non-categorical SIUs.	
	b. Number of CIUs.	
SIG	NIFICANT INDUSTRIAL USER INFORMATION:	
Supp	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions Fig through Fig and ide the information requested for each SIU.	
F.3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.	; .
	Name:	
	Mailing Address:	
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	
F.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.	
	Principal product(s):	
	Raw material(s):	
F.6.	Flow Rate.	
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day	
	(gpd) and whether the discharge is continuous or intermittent. gpd (
	b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in	
	gallons per day (gpd) and whether the discharge is continuous or intermittent. gpd (continuous orintermittent)	
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:	
	a. Local limitsYesNo	
	b. Categorical pretreatment standardsYesNo	
	If subject to categorical pretreatment standards, which category and subcategory?	

FACILITY NAME AND PERMIT NUMBER: Carolinal Village Form Approved 1/14/99 OMB Number 2040-0086 F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years? If yes, describe each episode. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE: F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ____Yes ___No (go to F.12.) F.10. Waste Transport. Method by which RCRA waste is received (check all that apply): Truck Dedicated Pipe F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units). EPA Hazardous Waste Number CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER: F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities? Yes (complete F.13 through F.15.) Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site. F.13. Waste Origin. Describe the site and type of facility at which the CERCLARCRA/or other remedial waste originates (or is expected to originate in the next five years). F.14. Pollutants.: List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? If yes, describe the treatment (provide information about the removal efficiency): b. Is the discharge (or will the discharge be) continuous or intermittent? Continuous If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER: CAVOLINAL VILLAGE Form Approved 1/14/99 OMB Number 2040-0086 Permit No. VA0065196 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1, or on a separate drawing, of the combined sewer collection system that includes the following information: Locations of major sewer trunk lines, both combined and separate sanitary. Locations of points where separate sanitary sewers feed into the combined sewer system. Locations of in-line and off-line storage structures. Locations of flow-regulating devices. Locations of pump stations. CSO OUTFALLS: ... Complete questions G:3 through G.6 once for each CSO discharge G.3. Description of Outfall. Outfall number Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) Distance from shore (if applicable) Depth below surface (if applicable) Which of the following were monitored during the last year for this CSO? CSO pollutant concentrations Rainfall CSO frequency CSO flow volume Receiving water quality How many storm events were monitored during the last year? G.4. CSO Events. Give the number of CSO events in the last year.

Give the average duration per CSO event. hours (_

events (___actual or___approx.)

actual or

END OF PART G.

intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

CDA Care 2540 24 (Day 4.00) - Darloons EDA forms 7650 6.9.7660.9

VPDES PERMIT NUMBER: VH0065196

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

C.	(17)	יש יש	NYN	\sim 1	NE	ADI	A WA	TT	~>	J
. `	L.K	# H.	N 1 N	:- 1	111		VI A		1 31	v

This application is divided into sections. Sections A and E pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will indicate which sections to fill out. 1. All applicants must complete Section A (General Information). Does this facility generate sewage sludge? Yes No 2. Does this facility derive a material from sewage sludge? _ Yes \(\sqrt{No} \) If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge). Does this facility apply sewage sludge to the land? __Yes __No 3. Is sewage sludge from this facility applied to the land? Yes VNo If you answered Yes to either, answer the following three questions: Does the sewage sludge from this facility meet the pollutant concentrations, Class A pathogen reduction a. requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? Is sewage sludge from this facility placed in a bag or other container for sale or give-away? Ь. Yes No Is sewage sludge from this facility sent to another facility for treatment (including blending) or placement in a bag or other container for sale or give-away? Yes No If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge). If you answered Yes to a, b or c, skip Section C. Do you own or operate a surface disposal site? Yes No 4. If Yes, complete Section D (Surface Disposal). 5. All applicants must complete Section E (Certification).

FACILITY NAME: Carolinal Village

VPDES PERMIT NUMBER: VA0065196

SECTION A. GENERAL INFORMATION

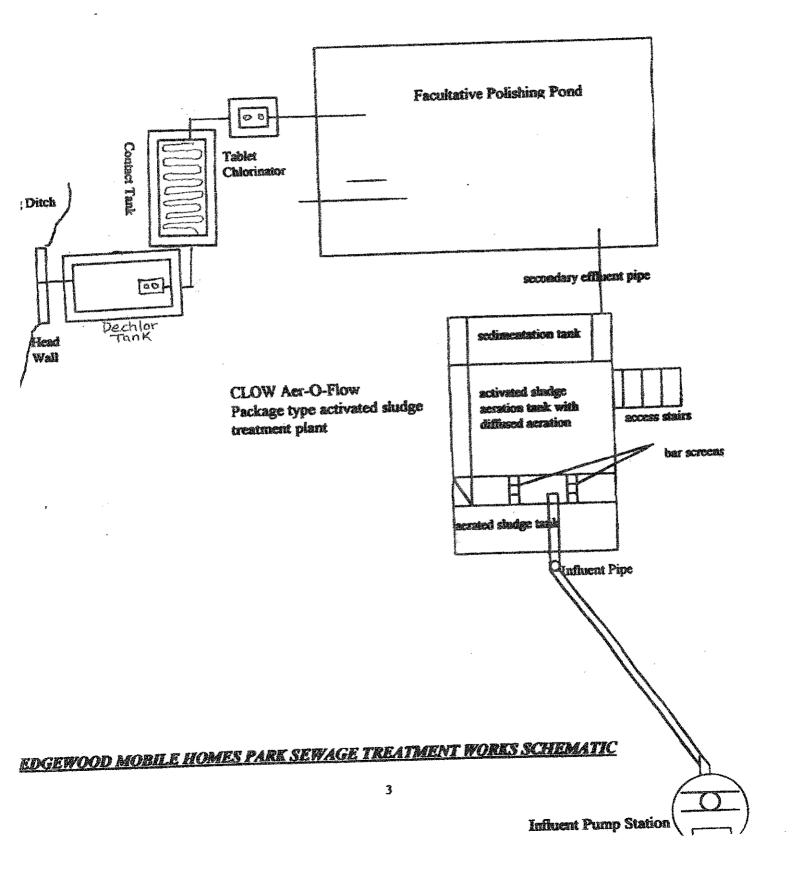
All applicants must complete this section. 1. Facility Identification. Name of facility: Facility contact: Name: 1) pshur J. Toculor b. Title: owner Phone: (757) \$24-5989 or (757) 894-1999 C. Facility mailing address: Street or P.O. Box: 5021 Holland Road City or Town: New Church State: VA d. Facility location: Street or Route #: 6379 Lankford Highway Accomack State: VA City or Town: New Church State: VA Zip: 23415
Facility latitude: Deq 37 min 57 sec 15 Facility longitude: Deq 75 min 52 sec 30 e. Is this facility a Class I sludge management facility? Yes V No If yes, submit the results of a toxicity characteristic leaching procedure (TCLP) performed on this facility's sewage sludge. Submit the results of all TCLPs performed during the last five years, if not previously submitted, Facility design influent flow rate: _O.OO6 mgd ġ. Total population served: 60 h. i. Indicate the type of facility: Publicly owned treatment works (POTW) ✓ Privately owned treatment works Federally owned treatment works ____ Blending or treatment operation ___ Surface disposal site Other explain: 2. Permit Information. Facility's VPDES permit number (if applicable): VA 0065196 List below all other federal, state or local permits or construction approvals received or applied for that b. regulate this facility's sewage sludge management practices: Permit Number: Type of Permit: VA0065196 3. Owner/Operator Information, Are you the owner of this facility? Vyes No If no, provide the owner's: Name: Voshur J. Taylor Street or P.O. Box: 5021 Holland Road City or Town: New Church State: <u>VA</u> Zip: 23415 Phone: (757) 824 - 5989 or (757) 894-1999 Are you the operator of this facility? ___Yes ____No If no, provide the operator's: b. Name: Street or P.O. Box: City or Town: State: Zip: Phone: (4. Indian Lands. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur on Indian lands? Yes No If yes, describe:

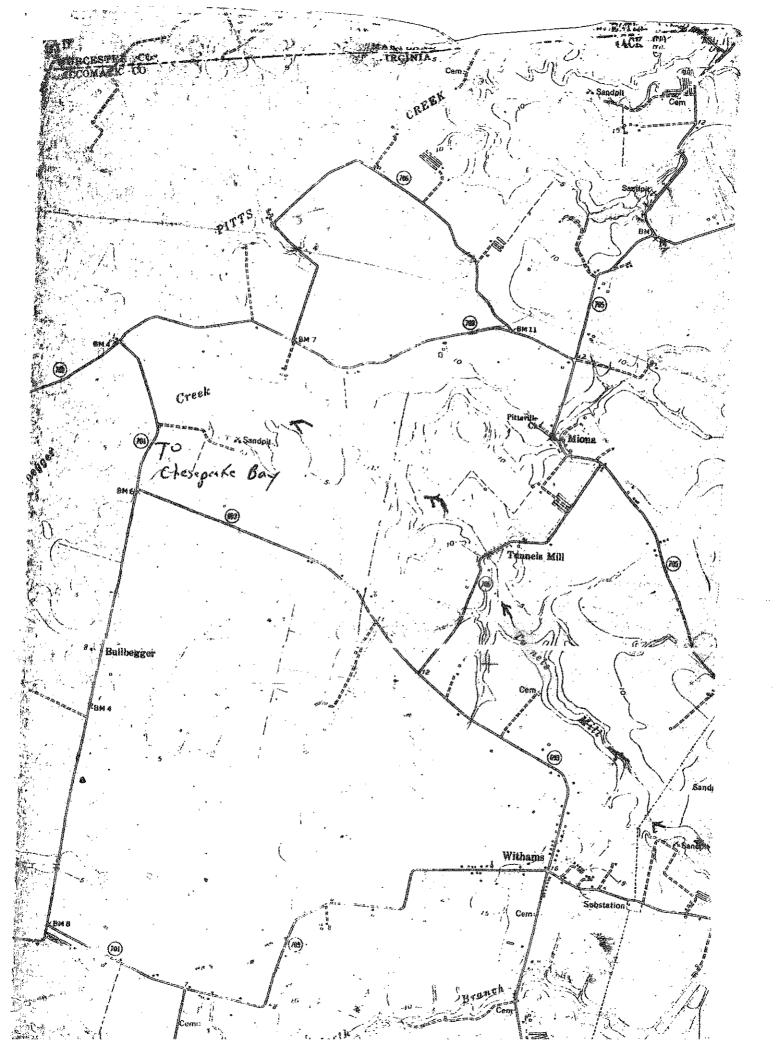
Facility Name And Permit Number Carolinal Village VA 0065196

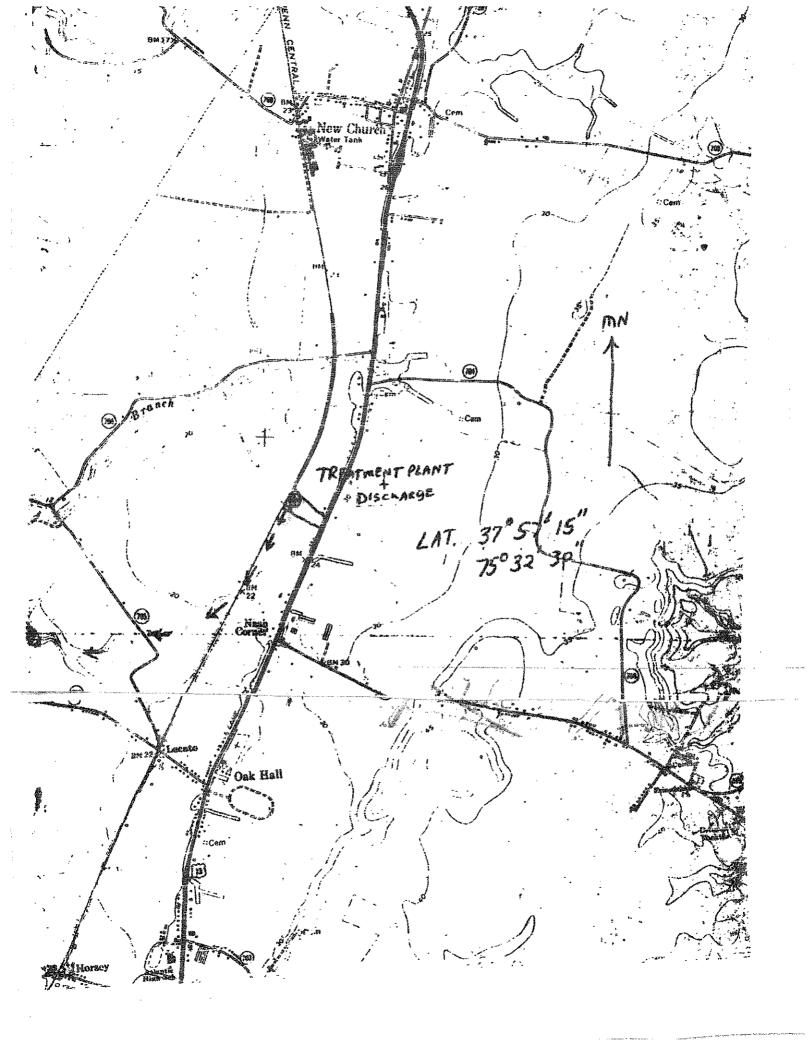
Re: Page 3, #6 - Narrative Description of Sludge Process

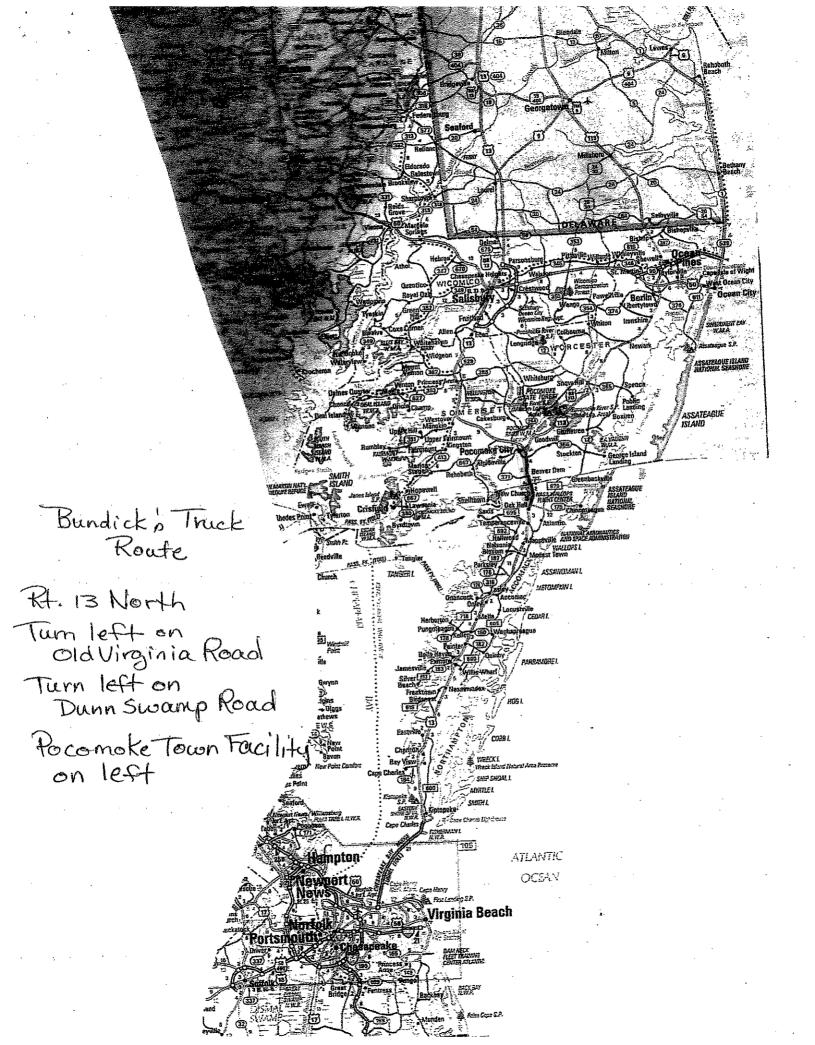
This facility has a package plant which is a wasteunder treatment facility that collects the studge, stores the studge, and treats the studge all-in-one. It utilizes the "extended areation treatment processes other treatment processes include: a polishing pond, a chlorination contact tank, and a dechlorination tank. The purpose of this equipment is to treat all sewage or water-bonne waste generated by the mobile home park.

VPDES NO: VA0065196









FACILITY NAME: <u>Cardinal Village</u>

VPDES PERMIT NUMBER: VA0065196

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following items of information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, treated, land applied or disposed.
 - b. Location of all water bodies within one mile beyond the facility's property boundaries.
 - c. Location of all wells used for drinking water listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

Yes VNo		·			
If yes, provide the follow	ving for each	contracto	or (attach ac	lditional pages if ne	eded).
Name:					-
Street or P.O. Box:	-	,			
City or Town:				State:	Zip:
Phone: ()	,				

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a legible copy(s) of the contract or a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

Provide a legible copy of any leasing agreements related to treatment and storage facilities not under direct ownership of the applicant, which identifies the parties involved.

8. Pollutant Concentrations. Using the table below or a separate attachment, provide existing data on the pollutant concentrations in sewage sludge from this facility. Provide all data for the last two years. If data from the last two years are unavailable, provide the most recent data.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE TYPE	SAMPLE DATE	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Copper				
Lead	**************************************			
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				
			-	

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

disno	ount Received from Off Site. If your facility receives sewage sludge from another facility for treatest, provide the following information for each facility from which sludge is received. If you re	tment,
chide	ge from more than one facility, attach additional pages as needed.	ceive se
a.	Nome of facility:	
ъ. b.	Name of facility:	
U.	Facility contact:	
_	Phone ()	
C.	Mailing address:	
	Street or P.O. Box:	
,	Street or P.O. Box: City or Town: State: Zip:	
d.	radity location.	
e.	1 otal dry metric tons per 363-day period received from this facility:	tons
f.	Describe on this form or on another sheet of paper any treatment processes known to occur at	t the of
	facility, including blending activities and treatment to reduce pathogens or vector attraction ch	haracter
-		
Treat	ment Provided at Your Facility.	
a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?	
	Class A Class B Neither or unknown	
	Class A Class B W Neither or linknown	
b.		to radiv
b.	Describe on this form or another sheet of paper any treatment processes used at your facility to	
b.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge: None	
b.	Describe on this form or another sheet of paper any treatment processes used at your facility to	
	Describe on this form or another sheet of paper any treatment processes used at your facility t pathogens in sewage sludge: None	
b. c.	Describe on this form or another sheet of paper any treatment processes used at your facility t pathogens in sewage sludge: None Which vector attraction reduction option is met for the sewage sludge at your facility?	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge: None Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids)	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	o reduc
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	to reduc
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	to reduc
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	to reduc
c.	Describe on this form or another sheet of paper any treatment processes used at your facility to pathogens in sewage sludge:	to reduc

VPDES PERMIT NUMBER: <u>VA 0065196</u>

	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes VNo
ì .	Sale o	r Give-Away in a Bag or Other Container.
		lete this question if you place sewage sludge in a bag or other container for sale or give-away prior to laud application. Skip
	this que	estion if sewage sludge is covered in Question 4.)
./^	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your
NL	Å.	facility for sale or give-away: tons
٠.	b.	Attach to this form a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container.
	O1 1	
• '	Shipm	ent Off Site for Treatment or for Sale or Give-Away.
	applicat	ete this question if sewage sludge from your facility is sent to another facility that provides treatment or that places the sewag n a bag or other container for sale or give-away. This question does not apply to sewage sludge sent directly to a land tion or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge
		than one facility, attach additional sheets as needed.)
-	a. b.	Name of receiving facility: Bundick Well & Pump
	U.	Facility contact: Name: Jimmy Bunolick Title: OLDNER
•		Title: <u>oconer</u> Phone: (757) 442-5555
		Street or P.O. Box: P.O. Box 15
	,	City or Town: Dainter State: VA Zip: 23420
	C.	Total day metric tone per 265 day period of
	d.	List on this form or an attachment the receiving facility's VPDES permit number as well as the numbers
		of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or
		disposal practices:
		Permit Number: Type of Permit:
		09-100-0002 Hauling Permit
	e.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? Yes V No
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class A Class B None or unknown
		Describe on this form or another sheet of paper any treatment processes used at the receiving facility to
		reduce pathogens in sewage sludge: none
٠	f.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?YesNo
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
;		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		✓ None or unknown Describe on this form or prother sheet of recommendations.
		Describe on this form or another sheet of paper any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: none

VPDES PERMIT NUMBER: VA0065196

g.	Does the receiving facility provide any additional treatment (including blending) not identified in e or f above? Yes V No
•	If yes, describe on this form or another sheet of paper the treatment processes not identified in e or f
	above:
h.	If you answered yes to e, f or g above, attach a copy of any information you provide to the receiving
	facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.
i.	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or
	give-away? Yes No If yes, provide a copy of all labels or notices that accompany the prod
	being sold or given away.
Land	Application of Bulk Sewage Sludge.
	plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions
or 6; c	complete Question 7.b & c only if you are responsible for land application of sewage sludge.)
a.	Total dry metric tons per 365-day period of sewage sludge applied to land application sites: tons
b.	Do you identify all land application sites in Section C of this application? Yes No
	If no, submit a copy of the land application plan with this application (see instructions).
C.	Are any land application sites located in states other than Virginia? Yes No
-	If yes, describe on this form or on another sheet of paper how you notify the permitting authority for the
-	states where the land application sites are located.
-	
	Provide a copy of the notification.
Surfa	ce Disposal.
(Comp	olete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface
	disposal sites:tons
b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
	Yes No If no, answer questions c - h for each surface disposal site that you do not own or
	operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as
	needed.
c.	Site name or number:
d.	Site contact: Name:
	Title:
	Phone: ()
	Contact is:Site OwnerSite operator
e.	Site mailing address.
	Street or P.O. Box:
	City or Town: State: Zip:
f.	Site location.
	Street or Route #:
	County:
	County: City or Town: State: Zip:
g.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface
-	disposal site:tons
h.	disposal site: tons List on this form or an attachment the surface disposal site VPDES permit number as well as the number
	of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the
	surface disposal site:
	. Permit Number: Type of Permit:
	·

9.	Incine	eration.
	(Comp	lete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
.la	a	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
NIM		to per analysis
17/	ъ.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
	o.	Voc. No. 15 no account and sewage studge inclinerators in which sewage studge from your facility is fired?
		Yes No If no, answer questions c - h for each sewage sludge incinerator that you do not own or
		operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages a
		needed.
	C.	Incinerator name or number:
	đ.	Incinerator contact:Name:
		Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Incinerator mailing address.
	C.	
		Sirect of P.O. Box.
	_	Street or P.O. Box: City or Town: State: Zip:
	f.	Incinerator location.
		Street or Route #:
		County:
		City or Town: State: Zîp:
-	g.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
	٠.	
	1_	
	h.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
0.	Dieno	sal in a Municipal Solid Waste Landfill.
	-	
	(Comp	lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following ation for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on
		nan one municipal solid waste landfill, attach additional pages as needed.)
Δ	a.	Landfill name:
1	b.	Landfill contact: Name:
		Title:
,		Phone: ()
		Contact is: Landfill Owner Landfill Operator
	C.	Landfill mailing address.
	02	Street or P.O. Box:
		City or Town: State: Zip:
	_	
	d	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
	υ,	· · · · · · · · · · · · · · · · · · ·
	c	tons
	f.	List on this form or an attachment the numbers of all federal, state or local permits that regulate the
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		<u>·</u>
	o	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	g.	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
	•	Yes No
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo

FACILITY NAME: <u>Cardinal Village</u>

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Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

The sewage sludge meets the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead); or The sewage sludge is sold or given away in a bag or other container (fill out B.5 instead); or You provide the sewage sludge to another facility for treatment or placement in a bag or other container (fill out B.6 instead). Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied. 1. Identification of Land Application Site. Site location b. Street or Route#: County: ______ State: ____ Zip: ______ Latitude: _____ Longitude: ______ ii. 2. Owner Information. Are you the owner of this land application site? ___Yes ___No If no, provide the following information for the owner: Name: Street or P.O. Box:

City or Town: _____ State: ____ Zip:_____ 3. Applier Information: Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? Yes No If no, provide the following information for the person who applies the sludge: b. Phone: (List on this form or an attachment the numbers of all federal, state or local permits that regulate the C. person who applies sludge to this land application site: Permit Number: Site Type. Identify the type of land application site from among the following: 4. Agricultural land Reclamation site Forest
Public contact site Other, specify 5. Vector Attraction Reduction. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes No If yes, answer a and b. Indicate which vector attraction reduction option is met: a. Option 9 (Injection below land surface) __ Option 10 (Incorporation into soil within 6 hours) b. Describe on this form or on another sheet of paper any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge:

6.	Groun	d Water Monitoring. y ground water monitori	data executable for this	land application site?	Ves No	
•	If ves.	y ground water monitoric submit the ground water Il locations, approximate	monitoring data with th	is permit application.	Also submit a writte	en description of
	these of		tiepin to ground water, t	and mo ground "ator n	iomiosing prosent	
7.	Cumul	lative Loadings and Rem	aining Allotments.		•	
		lete Question 7 only if the sev PLRs) - see instructions.)	•			
	а.	CPLRs will be applied this site since July 20,	EQ or the permitting aut to ascertain whether but 1993?YesNo	k sewage sludge subje	ct to the CPLRs has	been applied to
		If no, sewage sludge s	ubject to the CPLRs may	not be applied to this		
		Name of permitting at	thority:			
		Contact person.				<u> </u>
		Phone:()	ry, has bulk sewage sludg	a subject to the CDFP	s been applied to th	is site since Inly
	b.	20 1993? Yes	No If no, skip the res	t of Question 7. If ye	s, answer questions	c - g.
	C.	Site size, in hectares:		***	_ (one hectare = 2	.4/1 acres)
	d.	Dry metric tons of sev	vage sludge per hectare f	rom your facility appli-	ed to this site per 30	tons
	e.	Total dry metric tons	of sewage sludge from y	our facility applied to t	his site over the life	e of the site: tons
	f.	Provide the following	information for every fa	cility other than yours	that is sending or ha	is sent sewage
	-	sludge subject to the	PLRs to this site since I	uly 20, 1993. If more	than one such facil	ity sends sewage
		sludge to this site, atta	ach additional pages as n	eeded.		
			·			
		Facility contact: Nam	e:			
		•	Title:			-
•		m itster il ettir i alda.	\ 	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
		Facility mailing addre	ss. Box:			•
•):	State:	Zip:	
	~	Drovide the total load	ing and allotment remain	ing in kg/hectare, for	each of the followin	g pollutants:
	g.	Tioxide the total load:	Cumulative loading	Allotment remain	ning	~ .
		Arsenic				
		Cadmium			_	•
		Copper	· · · · · · · · · · · · · · · · · · ·			
		Lead	* 			-
		Mercury			•	
		Nickel	44			
		Selenium			r	
		Zinc			•	•
		21114		, <u></u>	•	
require	d by thes	ons 8-12 below only if you ap e questions may be prepared indicated under Section A.7)	as attachments to this form.	Skip the following question	ication of sewage sludge ns if you contract land	. Information application to
8.	Sludg	ge Characterization. Use	the table below or a sepa	arate attachment, provid	le at least one analy	sis for each
					_	
		PCBs (mg/kg)	,		•	
		pH (S. U.)				
		Darcont Solide (%)				

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Ammonium Nitrogen (mg/kg)	
Nitrate Nitrogen (mg/kg)	
Total Kjeldahl Nitrogen (mg/kg)	
Total Phosphorus (mg/kg)	
Total Potassium (mg/kg)	***************************************
Alkalinity as CaCO ₁ * (mg/kg)	

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₁.

9. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 10. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 11. Landowner Agreement Forms. Provide a properly completed Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

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12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

- d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked.
 (A USDA-SCS soil survey map should be provided, if available.)
 Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.
 - 1) Soil symbol
 - 2) Soil series, textural phase and slope range
 - 3) Depth to seasonal high water table
 - 4) Depth to bedrock
 - 5) Estimated soil productivity group (for the proposed crop rotation)

Items e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

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f.	Collect and analyze soil samples from each field, weighted to best represent each of the soil borings
	performed for Item e. Using the table below or a separate attachment, provide at least one analysis per
_	sample for each of the following parameters.

Soil Organic Matter (%)	*
Soil pH (std. units)	*
Cation Exchange Capacity (meq/100g)	
Total Nitrogen (ppm)	
Organic Nitrogen (ppm)	
Ammonia Nitrogen (ppm)	,
Nitrate Nitrogen (ppm)	
Available Phosphorus (ppm)	
Exchangeable Potassium (mg/100g)	
Exchangeable Sodium (mg/100g)	
Exchangeable Calcium (mg/100g)	
Exchangeable Magnesium (mg/100g)	
Arsenic (ppm)	
Cadmium (ppm)	
Copper (ppm)	
Lead (ppm)	
Mercury (ppm)	
Molybdenum (ppm)	
Nickel (ppm)	***************************************
Selenium (ppm)	
Zinc (ppm)	
Manganese (ppm)	
Particle Size Analysis or	
USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

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SLUDGE APPLICATION AGREEMENT

	1	- · · · · · · · · · · · · · · · · · · ·
This s	ludge application agreement is made on this date	between .
referre	ed to here as "landowner", and	, referred to here as the "Permittee".
with c	("landowner's]	the map attached as Exhibit A and designated there as land"). Permittee agrees to apply and landowner agrees to comply of sewage sludge on landowner's land in amounts and in a manner which is held by the Permittee.
condit public	ioning to the property. Moreover, landowner a	on of sewage sludge will be beneficial in providing fertilizer and soi cknowledges having been expressly advised that, in order to protect hered to when sewage sludge receives Class B treatment for
1.	Food crops with harvested parts that touch the shall not be harvested for 14 months after app	sewage sludge/soil mixture and are totally above the land surface lication of sewage sludge;
2.	Food crops with harvested parts below the sur- application of sewage sludge when the sewage to incorporation into the soil;	face of the land shall not be harvested for 20 months after sludge remains on the land surface for four months or longer prior
3.	Food crops with harvested parts below the surrapplication of sewage sludge when the sewage to incorporation into the soil;	face of the land shall not be harvested for 38 months after sludge remains on the land surface for less than four months prior
4.	Food crops, feed crops, and fiber crops shall no	ot be harvested for 30 days after application of sewage sludge;
5.	Animals shall not be allowed to graze on the la	and for 30 days after application of sewage sludge;
6.	Turf grown on land where sewage sludge is ap sewage sludge when the harvested turf is place unless otherwise specified by the State Water (plied shall not be harvested for one year after application of the d on either land with a high potential for public exposure or a lawn, Control Board;
7.	Public access to land with a high potential for sewage sludge;	public exposure shall be restricted for one year after application of
8.	Public access to land with a low potential for p sewage sludge.	public exposure shall be restricted for 30 days after application of
9.	Tobacco, because it has been shown to accumu years following the application of sewage sludg pounds/acre).	late cadmium, should not be grown on landowner's land for three ge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45
specific	ee agrees to notify landowner or landowner's destally prior to any particular application to landownotice to the address specified below.	signee of the proposed schedule for sludge application and mer's land. This agreement may be terminated by either party upon
	Landowner:	Permittee:
	Signature	Signature
	Mailing Address	Mailing Address

Mailing Address

1.

2.

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SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

a.	Unit name or number:
b.	Unit location:
c.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:
d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the u
	tons
e.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10 ⁻⁷ cm/sec?YesNo If yes, describe the liner or attach a description.
f.	Does the active sewage sludge unit have a leachate collection system? Yes No If yes, destribe leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
g. ,	If you answered no to either e or f, answer the following: Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the
	are are a series of the property time of the
	surface disposal site? Yes No If yes, provide the actual distance in meters:
h.	surface disposal site?YesNo If yes, provide the actual distance in meters:
h.	surface disposal site?YesNo If yes, provide the actual distance in meters:
	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a. b.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a. b.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewages seven seve	surface disposal site?YesNo _ If yes, provide the actual distance in meters:
Sewa; Is sev	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewag Is sev If yes a. b.	surface disposal site?YesNo If yes, provide the actual distance in meters: Remaining capacity of active sewage sludge unit, in dry metric tons: Anticipated closure date for active sewage sludge unit, if known: Provide with this application a copy of any closure plan developed for this active sewage sludge unit ge Sludge from Other Facilities. //age sludge sent to this active sewage sludge unit from any facilities other than yours?YesNow, provide the following information for each such facility, attach additional sheets as needed. Name of facility:
Sewages seven seve	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewag Is sev If yes a. b.	surface disposal site?YesNo If yes, provide the actual distance in meters:
Sewa; Is sev If yes a. b. c.	surface disposal site?
Sewag Is sev If yes a. b.	surface disposal site?

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	· g,	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids)
	h.	None or unknown Describe on this form or another sheet of paper any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
	i.	Describe on this form or another sheet of paper any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
3.	Vector a.	Attraction Reduction. Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?
		Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily)
	b.	Describe on this form or another sheet of paper any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:
4.	Ground a. b.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNoIf yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data. Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNoIf yes, submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNoIf yes, submit a copy of the
5.		certification with this application. Decific Limits.
	Are yo Ye applica	ou seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? Solution.

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SECTION E. CERTIFICATION

All applicants must sign the certification statement below

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Uppahn J- Japlan John W. Cline	Openator.
Name: Upshur J. Taylor	
Title: OWNER (type or print)	-
Telephone number: (757) 824-5989 or (757) 894-1999	
Date Signed: 08-31-2009	•

VPDES Permit Application Addendum

	Entity to whom the permit is to be issued: Upshur J. Taylor
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? The may or may not be the facility or property owner.
	Is this facility located within city or town boundaries? Y / (N)
-	Provide the tax map parcel number for the land where the discharge is located. <u>2700 A 00</u>
	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
	What is the design average effluent flow of this facility? MGD
	For industrial facilities, provide the max. 30-day average production level, include units:
	In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y / N
	If "YES", please identify the other flow tiers (in MGD) or production levels:
	Please consider the following questions for both the flow tiers and the production levels (if applicable): It you plan to expand operations during the next five years? Is you facility's design flow considerably greate than your current flow? Nature of operations generating wastewater: Households SEP 83 2008
,	/O O % of flow from domestic connections/sources Number of private residences to be served by the treatment works:
	% of flow from non-domestic connections/sources
	Mode of Discharge: Continuous Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges:
	Identify the characteristics of the receiving stream at the point just above the facility's discharge poin
-	Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry
_	Effluent-dependent stream, usually or always dry without effluent flow Lake or pond at or below the discharge point Other
Å	Approval Date(s): O & M Manual 200 Sludge/Solids Management Plan

<u>Please submit this completed form with your application</u> <u>Maintenance fee billing will be sent using this information</u>

Permit Maintenance Fee Information

(1) Facility Name:	Cardinal Village
. 	(Please indicate all facility names applicable for the information listed below)
(2) Permit Number	(s):
	VPDES Permit No. VA 0065196 adicate all VPDES individual permit numbers applicable for the information listed below)
(Please in	dicate all VPDES individual permit numbers applicable for the information listed below)
(3) Tax Payer ID [F	M: 55# 224-04-5373
(4) Billing Informat	ion:
Corporate Name	e or Owner Name Upshur J. Taylor
Corporate Billir	ng Address or Owner Address: 5021 Holland Road
	Wew Church, VA 23415
,	
(5) Billing Contact:	
Name, Title:	Upshur J. Taylor, owner
	(751) 824-5989 or (757) 894-1999
	speck@intercom.net